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Tarayba Sarıyer İstanbul & İzmit Kocaeli

Website: <http://bgracoskn.github.io>

Buğra COŞKUN

SKILLS

- Multi-Purpose Programming (**Python, C, C++, Arduino, Assembly, Matlab**)
- Embedded Microcontrollers (**PIC, AVR**)
- Neural Networks and Machine Learning (**TensorFlow, Keras**)
- Scientific Computing (**Numpy, Matlab, Simulink, Wolfram, Octave, Scilab**)
- Circuit Design and Simulation (**Multisim, Proteus, EagleCAD**)
- 2D&3D CAD Software (**Autocad, Fusion 360**)
- Language (**Bilingual English, Native Turkish, Casual Convo. Japanese, Introductory French**)

EDUCATION

Mechatronics Engineering - Kocaeli Üniversitesi, İzmit Kocaeli

Bachelors of Engineering 3.1 GPA

Some of the classes successfully completed:

Computer Aided Design (Autocad), Electrical Circuit Analysis, Visual Programming, C Programming, Engineering Materials, Logic Circuits, Thermodynamics, Automatic Control, Fluid Mechanics, Microprocessors, Electronics, Mechatronics Design, Numerical Methods, System Dynamics

CERTIFICATES

- Neural Networks and Deep Learning (deeplearning.ai)
- Improving Deep Neural Networks: Hyper parameter tuning, Regularization and Optimization (deeplearning.ai)
- Python Data Structures (University of Michigan)
- AI with IBM Watson Introduction Course (ITU)
- Complete TensorFlow (Udemy)
- The Introduction to Quantum Computers (Saint Petersburg State University)
- Electrodynamics: An Introduction (Korean Advanced Institute of Science and Technology)
- Electrodynamics: Analysis of Electric Fields (Korean Advanced Institute of Science and Technology) - Ongoing Course
- Particle Physics: An Introduction (University of Geneva) - Ongoing Course

PROJECTS (all further information can be accessed through bgracoskn.github.io)

- **Digital Heat Flux Meter**
https://bgracoskn.github.io/documents/heat_flux_pdf.pdf
- **OpenSpectR** (OSH 3DP Scanning Spectrophotometer) [Ongoing 25.2.2021 - ...]
<https://github.com/BgraCoskn/OpenSpectR>
- **Botterlord** (Text-based RPG written in PYTHON)
<https://github.com/BgraCoskn/botterlord>
- **GRAT** (Mobile game written in GDscript)
<https://github.com/BgraCoskn/GRAT>
- **Open Radio Telescope** (name subject to change, OSH 3DP Radio Telescope)
(Design stage 10.3.2021)
- Personal website (written in html, css, javascript)
<https://github.com/BgraCoskn/bgracoskn.github.io>
- Digital Subtractive Synthesis (made for Logic Circuits Class)
https://www.linkedin.com/posts/bugracoskun_audio-synthesis-ic-activity-6618158104645246976-ZlEZ

HOBBIES

- Electronic Music Production and Guitar
<https://soundcloud.com/macroprocessor>
- Road Cycling
<https://www.strava.com/athletes/64946653>
- Astronomy and stargazing

PROFESSIONAL EXPERIENCE

- Freelance web designer (3 paid projects)
- Assistant STEM teacher - Günebakan Akademi (Apr2020-Aug2020 5mos)
- Private tutor (6 past students)